



2013 North American Proficiency Testing Program  
3rd Quarter Report - October 9, 2013

Laboratory ID  
general

Environmental	Soil 2013-111					Soil 2013-112			Soil 2013-113			Soil 2013-114			Soil 2013-115		
Soil Analyses	Units	n	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Ag	mg/kg	1	6840	0.000		10800	0.000		14400	0.000		29900	0.000		16400	0.000	
Al	mg/kg	6	4900	459		9950	555		12800	1370		26600	2645		13600	1250	
As	mg/kg	6	1.35	0.572		3.94	1.36		6.04	1.44		3.90	0.410		6.00	1.41	
Ba	mg/kg	2	29.9	4.94		92.5	12.3		127	29.2		227	31.6		158	34.9	
Be	mg/kg	2	0.350	0.250		1.07	0.965		1.72	1.12		2.13	1.43		1.42	0.915	
Bi	mg/kg																
B	mg/kg	6	4.18	1.43		8.56	5.14		10.2	4.49		10.5	5.67		6.78	4.21	
Ca	mg/kg	7	1690	115		5220	276		10000	898		17000	631		1900	144	
Cd	mg/kg	9	0.149	0.029		0.210	0.036		0.305	0.051		2.74	0.455		0.120	0.046	
Co	mg/kg	7	1.63	0.250		12.4	2.27		17.0	2.96		20.4	3.16		10.7	1.76	
Cr	mg/kg	8	5.01	0.220		12.5	1.77		16.9	0.845		121	23.4		16.3	2.60	
Cu	mg/kg	8	3.45	0.329		14.8	2.52		15.4	1.32		47.0	4.27		11.3	1.38	
Fe	mg/kg	8	3960	205		24000	1220		25700	755		34600	2380		16600	1940	
K	mg/kg	7	1730	251		1870	168		1270	118		2180	307		1300	211	
Li	mg/kg	1	31.3	0.000		97.9	0.000		149	0.000		256	0.000		186	0.000	
Mg	mg/kg	7	864	199		4880	405		1630	343		5670	687		1270	146	
Mn	mg/kg	7	68.1	4.47		368	38.3		871	39.3		451	14.5		1180	27.2	
Mo	mg/kg	3	1.14	0.370		1.61	1.25		2.59	1.04		3.82	1.06		1.05	0.370	
Na	mg/kg	7	80.6	9.40		285	54.0		101	7.35		136	10.0		23.3	4.77	
Ni	mg/kg	9	4.01	0.530		12.4	1.30		18.5	3.06		124	9.35		14.3	0.250	
P	mg/kg	7	539	27.6		908	33.0		858	83.5		4010	108		447	24.6	
Pb	mg/kg	8	5.76	0.614		30.9	5.38		32.9	6.89		19.6	4.20		18.4	4.30	
S	mg/kg	6	238	22.0		155	6.06		430	47.0		277	7.00		146	5.50	
Sb	mg/kg	2	1.33	0.630		3.67	2.07		12.1	7.46		6.35	5.05		2.33	1.13	
Se	mg/kg	4	1.87	1.74		1.70	1.50		5.48	4.77		2.67	1.79		2.37	1.84	
Sn	mg/kg																
Sr	mg/kg	3	9.80	0.880		22.4	0.00		20.8	1.20		49.9	1.30		8.30	2.16	
V	mg/kg	4	9.65	4.10		54.7	8.50		22.4	3.30		114	15.9		25.4	4.40	
Zn	mg/kg	9	19.9	4.10		58.0	7.50		72.3	6.90		140	8.00		43.5	3.50	
Hg (US-EPA 7470 or 7471)	mg/kg	1	0.810	0.000		0.380	0.000		0.380	0.370		0.315	0.215		0.535	0.435	

1 - Values flagged exceed Warning Limits \*\*\* 2.5 x MAD (Median Absolute Deviation) and Control Limits \*\*\*\* 4 x MAD. " < " and " ND " values not recorded.  
2 - Limits not compared to lab data for methods with < 7 labs reporting.